



# Geon™ Vinyl Rigid Extrusion 87547

## Rigid Polyvinyl Chloride

### Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Features	• High Flow • High Impact Resistance
Uses	• Profiles
Appearance	• Clear/Transparent
Forms	• Pellets
Processing Method	• Extrusion

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.33	1.33	ASTM D792
PVC Cell Classification	16453	16453	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	405000 psi	2790 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	7740 psi	53.4 MPa	ASTM D638
Flexural Modulus	412000 psi	2840 MPa	ASTM D790
Flexural Strength	12800 psi	88.5 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	21 ft·lb/in	1100 J/m	
Across Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	11 ft·lb/in	570 J/m	
Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	2.6 ft·lb/in	140 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) <sup>3</sup>	1.17 in·lb/mil	52.0 J/cm	
73°F (23°C) <sup>4</sup>	3.88 in·lb/mil	173 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	82	82	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	153 °F	67.2 °C	
CLTE - Flow	3.9E-5 in/in/°F	7.0E-5 cm/cm/°C	ASTM D696

#### Additional Information

Note: The Cell Classification was determined using the notched Izod test with injection molded samples.

### Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	360 to 380 °F	182 to 193 °C

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**Notes**

- <sup>1</sup> Typical values are not to be construed as specifications.

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- <sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)

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- <sup>3</sup> Procedure A, C.125 Dart

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- <sup>4</sup> Procedure B, C.125 Dart

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